The AMBIAL folding door can be fully opened outwards, offering you a panoramic view, flooding rooms with natural light and blurring the boundaries between indoors and outdoors.

**HIGH PERFORMANCES**

Designed to be both durable and easy to use, the AMBIAL supported folding door can incorporate up to 10 leaf with a maximum height of 3 m for an opening of 12 m wide, in a straight line or on a corner, without visible post.

With a 75 mm module and supported by Technal’s exclusive rollers, chosen for their resilience, each leaf can support a weight of up to 150 kg.

AMBIAL also guarantees thermal and acoustic performance, as well as high-level weather and water resistance.

**SLEEK DESIGN**

The finishes have been designed with the greatest of attention to detail, to offer a harmonious appearance, both when open and closed. The frames are flush-fitting, with slim, well-balanced profiles. The upper and lower rollers and fixings are covered, to give a uniform overall look, even when open. Drainage are concealed with an invisible drainage channel on all configurations.

**WIDE SELECTION OF CONFIGURATIONS**

Whether in line or on a corner, inward or outward opening, from the centre or from one of the sides, AMBIAL can be adapted to suit all architectural wishes, whether a new-build or renovation: villas, architect-designed houses, extensions, hotel or restaurant terraces, balconies of apartment blocks, etc.
AMBIAL / THE MULTI-SPACE FOLDING DOOR

KEY FEATURES AND INNOVATIONS

LARGE DIMENSIONS
- Large sizes available up to: L 1.2 m x H 3 m per leaf, with possible configurations from 3 to 10-leaf for the straight line version with an opening of up to 12 m wide and from 2 to 10-leaf for the corner version
- Weight: up to 150 kg per leaf
- Glazing thickness from 9 to 52 mm

AESTHETICS AND COMFORT
- Completely flush appearance in closed position, with clean lines
- Uniform appearance in open position
- Great freedom of creation thanks to the wide choice of configurations
- Exclusive designed, ultra-flat handle and key
- Easy to operate, thanks to the upper and lower rollers, foldable pull handle and optional exterior handle on the service leaf
- The double brush option allows for a flush-fitting threshold
- Possibility to create a 1 or 2-leaf door to maintain the visual harmony nearby

RELIABILITY AND PROTECTION
- Secure design, to keep the door on the upper and lower tracks, thanks to the anti-derailment and anti-lift function
- Option to lock the intermediate leaves with ultra-flat handles and keys so that the profiles or keys are not damaged in the folded position
- Locks adapted depending on the function: 2 points with or without key, 3 points with key or 2 lever points for semi-fixed leaf
- Blocking magnets to protect the door from any shocks when in the open position, or if it is windy or if the door is incorrectly operated
- Security system to prevent the intermediate leaves being opened when the main door is closed
- Protective space between gaskets to avoid fingers being trapped
- Optional anti-slip threshold frame
- Secure design, to keep the door on the upper and lower tracks, thanks to the anti-derailment and anti-lift function
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- Security system to prevent the intermediate leaves being opened when the main door is closed
- Protective space between gaskets to avoid fingers being trapped
- Optional anti-slip threshold frame

PERFORMANCES
- Supported system for more stability
- Excellent thermal and sound insulation
- Endurance of over 30 year for the hardware, based on daily opening/closing
- The leaves are as easy to open as a sliding door
- Maximum resistance to rust on all hardware
- Rebated frame for improved weather resistance.
- 2 heights of openings available:
  - 63 mm in standard version
  - 73 mm in reinforced version for large dimensions

SOFTWARE
- Straight line version available in TechDesign, Tech3D and TechAcoustic

/
AMBIAL
/ THE FINE DETAILS

HIGH-END FINISHES

- Straight, black vertical line, in line with the edge of the leaves when viewed in the open position
- In the closed position, black hinges concealed in the vertical line of the seal
- Black hardware, seals and brush seals
- Screw heads covered with black caps, enhancing weather resistance
- Concealed drainage
- Two options for concealing vertical grooves:
  - Black synthetic profile
  - Black seal which improves thermal performance

HIGHLY RESISTANT HARDWARE

- Rollers covered with black caps which help with cleaning the tracks [design exclusive to Technal]
- Stainless steel tracks and wheels
- Simple adjustment on site:
  - Vertical +3 mm / -1 mm
  - Lateral +5 mm / -5 mm
- Anti-derailment load-bearing wheel
- Perfect security, thanks to a 3-point locking system with insulated key lock

EXCLUSIVE HANDLE DESIGN

- Square, ultra-flat handle and key design
- Handles and key covers can be lacquered to match all Technal colours
- Pull handle mounted on hinges or on support for easy closure
CROSS-SECTIONS
/ STRAIGHT LINE

PERFORMANCES

- Optimised heat loss values: Uw = 0.95 W/m².K
  with Ug = 0.5 W/m².K, Sw = 0.37 and TLw = 0.53*
  *These values are obtained with double glazing of 1.0 W/m².K and
  insulating crossbar with 5 leaves measuring 6 m x 3 m.
- Weather Resistance Performance:
  - Air: Class 3
  - Water: Class 8A
  - Wind: Class C3
- Acoustic attenuation: up to 42 dB (Rw)
- Operating force: Class 1 (less than 100 N)
- Mechanical strength: Class 3
- Corrosion resistant hardware: Grade 5
  (420 h in saline mist)
- Hardware endurance test: grade 5
  / 25,000 cycles (test conducted in accordance
  with EN13126-15)
- Optional cylinder lock tested to 400,000 opening
  and closing cycles
CROSS-SECTIONS
/ CORNER DOOR

HIGH-LEVEL FINISH
• Frame connected to the opening profile, ensuring rigidity and high performance
• A total of 2 to 10 opening leaves
• Outer corner solution with inward or outward opening. Inner corner available upon request
• Similar thermal performances to the in line version

ELEGANT DESIGN
• Minimal corner post profile: 93 mm
• Flush-fitting design maintained for the 63 mm opening
• More comfort allowing one side to be opened while keeping the other side closed
• Only one handle needed on the corner
• Visual harmony, both in open and closed
• Post can be customised according to installation conditions

3 X 3-LEAF - OPEN OUT
OUTER ANGLE

93
75
102
171
426
75
## CONFIGURATIONS

<table>
<thead>
<tr>
<th>Letters</th>
<th>1st number</th>
<th>2nd number</th>
<th>3rd number</th>
<th>Opening</th>
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<tbody>
<tr>
<td>AS = outer angle</td>
<td>Total number of leaf</td>
<td>Number of leaf on the left</td>
<td>Number of leaf on the right</td>
<td>i = inward</td>
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</table>

### Inward opening

<table>
<thead>
<tr>
<th>Leaf Configuration</th>
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</thead>
<tbody>
<tr>
<td>1-leaf</td>
</tr>
<tr>
<td>2-leaf</td>
</tr>
<tr>
<td>3-leaf</td>
</tr>
<tr>
<td>4-leaf</td>
</tr>
<tr>
<td>5-leaf</td>
</tr>
<tr>
<td>6-leaf</td>
</tr>
<tr>
<td>7-leaf</td>
</tr>
<tr>
<td>8-leaf</td>
</tr>
<tr>
<td>9-leaf</td>
</tr>
<tr>
<td>10-leaf</td>
</tr>
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</table>

### Outward opening

<table>
<thead>
<tr>
<th>Leaf Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-leaf</td>
</tr>
<tr>
<td>2-leaf</td>
</tr>
<tr>
<td>3-leaf</td>
</tr>
<tr>
<td>4-leaf</td>
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<tr>
<td>5-leaf</td>
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<tr>
<td>6-leaf</td>
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<tr>
<td>7-leaf</td>
</tr>
<tr>
<td>8-leaf</td>
</tr>
<tr>
<td>9-leaf</td>
</tr>
<tr>
<td>10-leaf</td>
</tr>
</tbody>
</table>

### Diagrams

- **Inward opening**
  - AS-211-i
  - AS-413-i
  - AS-633-i

- **Outward opening**
  - AS-211-e
  - AS-413-e
  - AS-633-e

- **Inward opening**
  - AS-413-i
  - AS-431-i
  - AS-633-i

- **Outward opening**
  - AS-413-e
  - AS-431-e
  - AS-633-e

- **Inward opening**
  - AS-615-i
  - AS-651-i

- **Outward opening**
  - AS-615-e
  - AS-651-e

- **Inward opening**
  - AS-835-i
  - AS-853-i

- **Outward opening**
  - AS-835-e
  - AS-853-e

- **Inward opening**
  - AS-1055-i

- **Outward opening**
  - AS-1055-e
### MATERIALS AND PARTS
As with all Technal systems, only the best materials and parts are used to minimise maintenance and ensure long-term performance.
- The aluminium profiles are extruded from alloys 6060 Building compliant with EN 12020, EN 573-3, EN 515 and EN 775-1 to 9.
- Fittings are cast from EN 12844 compliant Zamak 5.
- All seals are EPDM or TPE (Thermoplastic elastomer).
- The polyamide thermal breaks are extruded from pA6-6 (0.25 FV).
- Screws are made from stainless steel.

### FINISHES AND COLOURS
A wide range of finishes and colours is available to meet individual project requirements, enhancing existing buildings and offering architects and designers greater design freedom:
- Natural anodised in accordance with EN 123731: 2001.
- Polyester coating finishes in a wide range of colours in accordance with "QUALICOAT" instructions.
- AMBIAL is also available in lacquered finishes with exclusive Technal colours for a stylish and contemporary look.

### PERFORMANCES

#### AEV PERFORMANCES: (Air, Water, Wind)

<table>
<thead>
<tr>
<th>AMBIAL</th>
<th>Air permeability</th>
<th>Water tightness</th>
<th>Resistance to wind pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-leaf 2.25 x 2.40 m</td>
<td>Class 3</td>
<td>Class 8A</td>
<td>Class C3</td>
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#### ACOUSTIC PERFORMANCES

<table>
<thead>
<tr>
<th>AMBIAL</th>
<th>Glazing</th>
<th>Thickness</th>
<th>Performances glazing</th>
<th>Performances AMBIAL</th>
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<tr>
<td>3 leaves open out 3.65 x 2.18 m</td>
<td>4/16/4</td>
<td>24</td>
<td>30</td>
<td>32</td>
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<tr>
<td></td>
<td>44.25i-16-10</td>
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<td>45</td>
<td>42</td>
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#### THERMAL PERFORMANCE – Uw

<table>
<thead>
<tr>
<th>Configurations</th>
<th>Size W x H in m</th>
<th>Uw with Ug 0.6 triple glazing in W/m².K</th>
<th>Uw with Ug 0.5 warm edge triple glazing in W/m².K</th>
<th>Uw with Ug 1.0 double glazing in W/m².K</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-leaf</td>
<td>3.45 x 2.18</td>
<td>1.4</td>
<td>1.2</td>
<td>1.6</td>
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<tr>
<td>5-leaf</td>
<td>6.00 x 3.00</td>
<td>1.3</td>
<td>0.95</td>
<td>1.6</td>
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<tr>
<td>6-leaf</td>
<td>6.90 x 2.18</td>
<td>1.3</td>
<td>1.1</td>
<td>1.6</td>
</tr>
<tr>
<td>10-leaf</td>
<td>11.50 x 2.18</td>
<td>1.3</td>
<td>1.1</td>
<td>1.6</td>
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